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5. **Crafting a Java virtual machine in silicon**
Hardin, D.S.;
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1 Formalizing the safety of Java, the Java virtual machine, and Java card

Pieter H. Hartel, Luc Moreau

December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4

Publisher: ACM Press

Full text available: pdf(442.86 KB) Additional Information: full citation, abstract, references, citings, index terms

We review the existing literature on Java safety, emphasizing formal approaches, and the impact of Java safety on small footprint devices such as smartcards. The conclusion is that although a lot of good work has been done, a more concerted effort is needed to build a coherent set of machine-readable formal models of the whole of Java and its implementation. This is a formidable task but we believe it is essential to build trust in Java safety, and thence to achieve ITSEC level 6 or Common Crite ...

Keywords: Common criteria, programming

2 Research papers I: Interpreting programs in static single assignment form

Jeffery von Ronne, Ning Wang, Michael Franz

June 2004 **Proceedings of the 2004 workshop on Interpreters, virtual machines and emulators**

Publisher: ACM Press

Full text available: pdf(165.13 KB) Additional Information: full citation, abstract, references

Optimizing compilers, including those in virtual machines, commonly utilize Static Single Assignment Form as their intermediate representation, but interpreters typically implement stack-oriented virtual machines. This paper introduces an easily interpreted variant of Static Single Assignment Form. Each instruction of this Interpretable Static Single Assignment Form, including the Phi Instruction, has self-contained operational semantics facilitating efficient interpretation. Even the array mani ...

3 Technical correspondence: When and what to compile/optimize in a virtual machine?

K. V. Seshu Kumar

March 2004 **ACM SIGPLAN Notices**, Volume 39 Issue 3

Publisher: ACM Press

Full text available: pdf(731.84 KB) Additional Information: full citation, abstract, references

To speed up the computation of some of the object languages, virtual machines use